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Instructions for use

INSECTS COLLECTED AT THE FOOT OF MT. YATSUGADAKE AND ITS ENVIRONMENT

By

Prof. S. MATSUMURA

In September from the 22nd to 24th, 1934, the author had the opportunity to lead the entomological hiking group to Binomori (Utsukushinomori) at the foot of Mt. Yatsugadake, which was intended by the Tokyo Nichinichi Newspaper Co., the Japan Tourist Bureau and the Railway Bureau of Tokyo. The insects which are mentioned here were mostly collected by Messrs. CHIRO YOHENA, CHIU NOMURA, KOICHI TAKAI, SHUJIRO HIRAYAMA and the author. In the mountainous district the season was quite late and as it was just after heavy storm, so the collection was insatisfactory, but the following species are noteworthy here to enumerate. As some of those insects are new to science, so the author will describe them in this occasion. The author wishes to express his sincere gratitude to Mr. S. HIRAYAMA who had helped him much in this hiking party. In this occasion the author will describe also some of new species belonging to *Cercopidae* (*Homoptera*) which were collected in the vicinity of Tokyo by Mr. S. HIRAYAMA.

Order HYMENOPTERA

Fam. *Apidae*

1. *Apis indica japonica* RAD.
Nom. Jap.: *Mitsubachi*.
2. *Bombus ardens* SM.
Nom. Jap.: *Ko-maruhanabachi*.
3. *Bombus equestris* F.
Nom. Jap.: *Usuiro-maruhanabachi*.
4. *Bombus yoshidae* MATS.
Nom. Jap.: *Yoshida-maruhanabachi*.
5. *Ceratina hieroglyphica* SM.
Nom. Jap.: *Kiobi-kohanabachi*.

6. *Halictus occidens* SM.
Nom. Jap.: *Shirosuji-himehanabachi.*
7. *Megachile sasakiella* COCQ.
Nom. Jap.: *Hime-hakiribachi.*

Fam. ***Colletidae***

1. *Colletes perforator* SM.
Nom. Jap.: *Mitsubachi-modoki.*

Fam. ***Vespidae***

1. *Polistes gallicus* L.
Nom. Jap.: *Futamon-ashinagabachi.*
2. *Polistes mandarinus* SAUSS.
Nom. Jap.: *Kiboshi-ashinagabachi.*
3. *Rhynchium mandarineum* SAUSS.
Nom. Jap.: *Futo-futaobi-dorobachi.*
4. *Vespa crabro crabroniformis* SM.
Nom. Jap.: *Mon-suzumebachi.*
5. *Vespa japonica* SAUSS.
Nom. Jap.: *Kuro-suzumebachi.*
6. *Vespa rufa* L.
Nom. Jap.: *Ô-kuro-suzumebachi.*

Fam. ***Ichneumonidae***

1. *Aphanistes orientalis* UCH.
Nom. Jap.: *Sakiaka-kombôamebachi.*
2. *Ctenoichneumon kawamurae* UCH.
Nom. Jap.: *Kawamura-sakibuto-himebachi.*
3. *Ephialtes carbonarius* CHRIST
Nom. Jap.: *Yezo-hoso-onagahimebachi.*
4. *Hoplismenus speciosus* UCH.
Nom. Jap.: *Kuro-higenaga-himebachi.*

Fam. ***Tenthredinidae***

1. *Tenthredella versuta* MOSC.

Nom. Jap.: *Hakone-habachi.*

Order COLEOPTERA

Family **Cicindelidae**

1. *Cicindela chinensis* DEG.

Nom. Jap.: *Nami-hanmyo.*

3. *Cicindela hibrida japonensis* CHAUD.

Nom. Jap.: *Ko-niwahanmyo.*

2. *Cicindela japonica* MOTSCH.

Nom. Jap.: *Nirwa-hanmyo.*

Fam. **Carabidae**

1. *Amara chalcites* ZIMM.

Nom. Jap.: *Marugata-gomi.*

2. *Dolichus halensis* SCHALL.

Nom. Jap.: *Seaka-gomi.*

3. *Lebia crux-minor* L.

Nom. Jap.: *Kurozu-jujigomi.*

4. *Lebia japonica* CHAUD.

Nom. Jap.: *Juji-gomi.*

5. *Lebidia octoguttata* MOR.

Nom. Jap.: *Yahoshi-gomi.*

6. *Poecilus encopolens* SOLSKY

Nom. Jap.: *Kin-nagagomi.*

Fam. **Gyrinidae**

1. *Dineutes marginatus* SHARP

Nom. Jap.: *Ô-mizusumashi.*

Fam. **Nitidulidae**

1. *Carpophilus chalybeus* MURR.

Nom. Jap.: *Kuro-hanakeshikisui.*

Fam. **Coccinellidae**

1. *Coccinella bruckii* MULS.

Nom. Jap.: *Nanahoshi-tento.*

2. *Ithon hexaspilota* HOPE
Nom. Jap.: *Kamenoko-tento*.
3. *Ptychanatis axyridis* PALL.
Nom. Jap.: *Nami-tento*.

Fam. ***Chrysomelidae***

1. *Acrothinium gaschkevitschi* MOTSCH.
Nom. Jap.: *Akagane-saruhamushi*.
2. *Aspidomorpha difformis* MOTSCH.
Nom. Jap.: *Jingasa-hamushi*.
3. *Cassida nebulosa* L.
Nom. Jap.: *Kamenoko-hamushi*.
4. *Chrysomela angusticollis* MOSCH.
Nom. Jap.: *Ô-yomogi-hamushi*.
5. *Chrysomela aurichalcea* MANN.
Nom. Jap.: *Yomogi-hamushi*.
6. *Chrysomela exanthematica* WIED.
Nom. Jap.: *Hakka-hamushi*.
7. *Haltica viridicyanea* BALY
Nom. Jap.: *Ko-kaminari-hamushi*.
8. *Hispa nigrocyanea* MOTSCH.
Nom. Jap.: *Togetoge*.
9. *Lochmaea capreae* L.
Nom. Jap.: *Ôbako-hamushi*.
10. ***Luperodes suzukii* n. sp.**

Dark brown, shining. Antenna with short testaceous hairs. Mandibles at the bases pale brownish. Frons scarcely and vertex microscopically punctured. Pronotum sparsely punctured, the marginal keel higher at the sides, the hind angles obtuse, with a small projection. Scutellum impunctured. Elytron brownish, with numerous puncture-rows, the interspaces smooth, epipleura darker in colour. Legs black, the femora dark brownish and the claws reddish brown. Sternum black, shallowly punctured, with grayish yellow hairs; metapleura longitudinally aciculated. Abdomen at the venter shagreened, with recumbent grayish yellow hairs.

Length 6 mm.

Hab.: Kyoto and Binomori: one specimen was collected by Motojiro SUZUKI and the other one was collected by KOICHI TAKAI at Binomori in the Prov. Yamanashi. This species resembles *L. discrepans* BALY, but differs from it in much smaller size and in having brownish elytron.

- Nom. Jap.: *Suzuki-hamushi.*
- 11. *Melasoma populi* L.
Nom. Jap.: *Doronoki-hamushi.*
- 12. *Monolepta dichroa* HAR.
Nom. Jap.: *Hotaru-hamushi.*
- 13. *Nodostoma pallidulum* BALY
Nom. Jap.: *Chairo-saruhamushi.*
- 14. *Phaedon brassicae* BALY
Nom. Jap.: *Ruri-saruhamushi.*
- 15. *Phaedon incertum* BALY
Nom. Jap.: *Saru-hamushi.*
- 16. *Phagiodes versicolora distincta* BALY
Nom. Jap.: *Yanagi-rurihamushi.*

Fam. *Cerambycidae*

- 1. *Leptura succedanea* LEW.
Nom. Jap.: *Aka-hanakamikiri.*
- 2. *Monochammus sartor* F.
Nom. Jap.: *Yotsuboshi-higenagakamikiri.*
f. *takaii* n. form.

Differs from the typical specimen as follows:

♂. Pronotum on each side with 2 white hair-patches, on the hind part with a smaller white patch, the inner side of each lateral projection with some white hairs; scutellum with white pubescence; elytron scattered with numerous white patches, some of which at the middle are much larger.

Length 29 mm., antenna 66 mm.

Hab.: Binomori at the foot of Yatsugadake; one male specimen was collected by KOICHI TAKAI.

Fam. *Curculionidae*

- 1. *Byctiscus congener* JEK.
Nom. Jap.: *Doro-hamakichokkiri.*

2. *Catapionus viridimetallicus* MOTSCH.
Nom. Jap.: *Hanaudo-zô*.
3. *Cryptorrhynchidius lapathii* L.
Nom. Jap.: *Shirijiro-zô*.
4. *Dermatoxenus nodosus* MOTSCH.
Nom. Jap.: *Hime-shiro-kobuzô*.
5. *Episomus turritus* GYL.
Nom. Jap.: *Shiro-kobuzô*.
6. *Myllocerus variabilis* ROELOFS
Nom. Jap.: *Kunugi-aozô*.
7. *Paraplapoderus pardalis* VOLLENH.
Nom. Jap.: *Gomadara-otoshibumi*.

Fam. ***Lucanidae***

1. *Lucanus maculifemoratus* MOTSCH.
Nom. Jap.: *Miyama-kuwagata*.

Fam. ***Scarabaeidae***

1. *Anomala costata* HOPE
Nom. Jap.: *Ô-suji-kogane*.
2. *Anomala rufocuprea* MOTSCH.
Nom. Jap.: *Hime-kogane*.
3. *Aphodius solskyi* HAR.
Nom. Jap.: *Maguso-kogane*.
4. *Aphodius apicalis* HAR.
Nom. Jap.: *Ô-maguso-kogane*.
5. ***Aphodius (Acrossus) koichianus* n. sp.**
Closely allied to *A. rufipes* L., but differs from the latter as follows:
♀. Body much smaller; frons and pronotum at the sides reddish brown, the latter finely and densely punctured; pronotum at the anterior margin coppery red, at the sides and near the anterior margin densely punctured, the angles broadly rounded, just above them distinctly emarginated, where the marginal keel becomes indistinct; scutellum shallowly punctate; elytron at each interspace with 2-3 rows of shallow, small punctures, with a golden shining recumbent hair in each puncture; pygidium uneven, but not punctured; abdomen at the

venter yellowish, impunctured; prosternum strongly punctured except at the middle.

Length 9 mm.

Hab.: Minokuchi at the Prov. Shinano; 3 female specimens were collected by KOICHI TAKAI in cow-dung.

Nom. Jap.: *Koichi-magusokogane*.

6. *Cetonia pilifera* MOTSCH.

Nom. Jap.: *Hana-moguri*.

7. *Copris acutidens* MOTSCH.

Nom. Jap.: *Gohon-daikoku*.

8. *Copris ochus* MOTSCH.

Nom. Jap.: *Daikoku-kogane*.

9. *Geotrupes auratus* MOTSCH.

Nom. Jap.: *Ô-senchi-kogane*.

10. *Geotrupes laevistriatus* MOTSCH.

Nom. Jap.: *Senchi-kogane*.

11. *Melolontha frator* ARROW

Nom. Jap.: *Ô-kofuki-kogane*.

12. *Oniticellus phalaenoides* WEST.

Nom. Jap.: *Tsuno-kogane*.

13. *Oniticellus yohenai* n. sp.

Closely allied to *O. phalaenoides* WEST., but differs from the latter as follows:

Body smaller; head at the vertex with a v-shaped elevation, its apex being impunctate and much more elevated, at the anterior margin reddish brown, being much higher upturned; pronotum much finely punctate, with 2 longitudinal keels, which are broader towards the hind margin and impunctate, at the anterior part being not connected with a transverse bar; scutellum finely punctate; elytron finely granulated, the longitudinal grooves deeper, each with a double interrupted fine keel, the sutural region not elevated as in *O. phalaenoides*; pygidium with a distinct keel, being obsolete at the apex.

Length 10 mm.

Hab.: Minokuchi in the Prov. Shinano; one female specimen was collected by CHIRO YOHENA.

Nom. Jap.: *Yohena-tsunokogane*.

14. *Onthophagus ater* WATERH.

Nom. Jap.: *Kuro-magusokogane*.

15. *Onthophagus koichii* n. sp.

Black, moderately punctate. Vertex near the anterior margin with a transverse brownish ridge, at the anterior margin reflexed, transversely, rugosely punctate, near the hind margin with a short ridge. Pronotum with 4 tuberclose projections at the anterior part in a transverse line, 2 of which are situated at the middle near the hind margin of the head, at the peryphery the punctures are less and smaller. Scutellum punctate, at the anterior half very finely, transversely rugose. Elytron striate-punctate, in the interspace finely punctate, mostly with 3 rows of punctures, being not pubescent. Pygidium punctate, with a light aeneous lustre. Antennal club brownish, at the apex paler. Tarsi reddish brown.

Length 7 mm.

Hab.: Minokuchi in the Prov. Shinano; one male specimen was collected by KOICHI TAKAI.

Nom. Jap.: *Koichi-marukogane*.

Allied somewhat to *O. microcephalus* HAR., but differs from the latter especially in having 4 tuberclose projections at the anterior part of pronotum.

16. *Onthophagus minokuchianus* n. sp.

♀. Darkbrown, elytron reddish brown. Vertex somewhat shining, at the extreme anterior margin reflexed, grossly punctate, at the anterior margin rugosely, transversely punctate, in the disc with a short curved ridge, and near the hind margin with a wavy transverse ridge, building a longitudinal keel on each side, altogether enclosing a large concave space; the space behind the occipital keel impunctate. Pronotum ocellato-punctate, on the lateral sides with a few rows of whitish hairs. Elytron striato-punctate, the striation double, very fine, being interrupted, the interspaces with 2 or 3 rows of very fine granules, each granule producing a recumbent testaceous hair. Pygidium sparsely punctate, with an erect whity hair in each puncture. Legs reddish brown.

Length 6.5 mm.

Hab.: Minokuchi at the Prov. Shinano; one female specimen was collected by KOICHI TAKAI.

Nom. Jap.: *Minokuchi-magusokogane*.

Somewhat allied to *O. viduus* HAR., but the thorax and legs entirely reddish brown, the pronotum being ocellato-punctate.

17. *Onthophagus nitidus* WATERH.

Nom. Jap.: *Tsuya-marukogane*.

18. *Onthophagus shinanensis* n. sp.

♂. Black, elytron dark brown. Vertex shining, scattered with large shallow punctures which are rather rugosely fused together at the frontal part at the disc with short, less punctured and cross-shaped elevation, at the hind angles with a bufalo-like horn, projecting backwardly and curving inwardly, the horns at the apices scarcely punctate, at the hind margin on both sides shallowly, broadly and in the middle deeply, triangularly engulfed, where the punctures being sparse. Pronotum ocellato-punctate, at the anterior border deeply excavated, scarcely punctate, much polished, at the sides with a few rows of pale brownish hairs. Elytron at the interspaces with 2-3 rows of granules, with a recumbent, testaceous hair in each granule, the longitudinal grooves with 2 very fine, interrupted keels, the hind part of the elytron neither punctate nor granulate. Pygidium shallowly punctate, with erect testaceous hairs. Antennae at the club fuscous, opaque, the middle of flagellum, the tip of maxillary palpus and the tarsi reddish brown.

♀. Differs from the male in lacking the bufalo-like horns at the vertex, with each a transverse ridge in the middle and near the hind margin, the former being short and obsolete.

Length 9-10 mm.

Hab.: Minokuchi at the Prov. Shinano.

Nom. Jap.: *Shinano-marukogane*.

Somewhat allied to *O. ocellato-punctatus* WATERH., but differs from it in having the vertex with 2 bufalo-like horns in the male.

19. *Oxycetonia jucunda* FALD.

Nom. Jap.: *Ko-hanamoguri*.

Order DIPTERA

Fam. *Syrphidae*1. *Chrysotoxum festivum* L.

Nom. Jap.: *Yamato-higenaga-hanaabu*.

2. *Didea alneti* FALL.

Nom. Jap.: *Ô-maru-hirataabu*.

3. *Eristalis cerealis* F.

Nom. Jap.: *Nora-hanaabu*.

4. *Eristalis tenax* L.

Nom. Jap.: *Hanaabu*.

5. *Megaspis zonalis* F.
Nom. Jap.: *Ô-hanaabu.*
6. *Volucella tabanoides* MOTSCH.
Nom. Jap.: *Sukashi-bekko-hanaabu.*

Fam. **Tachinidae**

1. *Echinomyia mikado* KIRBY.
Nom. Jap.: *Sesuji-haribaye.*
2. *Servilia luteola* COG.
Nom. Jap.: *Ô-haribaye.*

Fam. **Tabanidae**

1. *Chrysops japonicus* WIED.
Nom. Jap.: *Kuro-mekuraabu.*
2. *Tabanus chrysurus* LOEW.
Nom. Jap.: *Aka-ushiabu.*

Fam. **Asilidae**

1. *Pycnopogon hatakeyamae* MATS.
Nom. Jap.: *Hatakeyama-higenaga-mushihiki.*
2. *Promachus yesonicus* BIG.
Nom. Jap.: *Shioya-abu.*

Fam. **Muscidae**

1. *Calliphora lata* COQ.
Nom. Jap.: *Kuro-baye.*
2. *Graphomyia maculata* SCOP.
Nom. Jap.: *Semadara-hanabaye.*
3. *Gymnosoma kuramanum* MATS.
Nom. Jap.: *Kurama-hanabaye.*

Order **LEPIDOPTERA**

Suborder **RHOPALOCERA**

Fam. **Pieridae**

1. *Colias hyale poliographus* MOTSCH.
Nom. Jap.: *Monki-cho.*

2. *Gonepteryx aspasia* MÉN.
Nom. Jap.: *Sujiboso-yamakicho.*
3. *Gonepteryx rhamni* L.
Nom. Jap.: *Yamakicho.*
4. *Pieris melete* MÉN.
Nom. Jap.: *Usumon-shirocho.*
5. *Pieris rapae crucivora* BOISD.
Nom. Jap.: *Monshirocho.*
6. *Terias hecabe mariessi* BUTL.
Nom. Jap.: *Kicho.*

Fam. ***Satyridae***

1. *Erebia sedakovii niphonica* JANS.
Nom. Jap.: *Beni-hikage.*
2. *Mycalesis francisca perdiccas* HEW.
Nom. Jap.: *Ko-janome.*
3. *Neope goschkevitchii japonica* BUTL.
Nom. Jap.: *Kimadara-hikage.*
4. *Satyrus dryas bipunctata* MOTSCH.
Nom. Jap.: *Nami-janome.*

Fam. ***Nymphalidae***

1. *Argynnis adippe pallescens* BUTL.
Nom. Jap.: *Uragin-hyômon.*
2. *Argynnis aglaja fortuna* JANS.
Nom. Jap.: *Ginboshi-hyômon.*
3. *Neptis hylas intermedia* PRYER.
Nom. Jap.: *Komisuji.*
4. *Pyrameis cardui japonica* STICH.
Nom. Jap.: *Hime-tateha.*
5. *Vanessa antiopa* L.
Nom. Jap.: *Kiberi-tateha.*
6. *Vanessa io geisha* STICH.
Nom. Jap.: *Kujaku-cho.*

7. *Vanessa urticae connexa* BUTL.
Nom. Jap.: *Kohiodoshi*.

Fam. ***Lycaenidae***

1. *Everes argiades* PALL.
Nom. Jap.: *Tsubame-shijimi*.
2. *Lampides boeticus* L.
Nom. Jap.: *Uranami-shijimi*.
3. *Lycaena argus insularis* LEECH.
Nom. Jap.: *Nami-shijimi*.
4. *Zizera maha* KOLL.
Nom. Jap.: *Yamato-shijimi*.

Fam. ***Hesperiidae***

1. *Parnara guttata assamensis* MAS. et NIC.
Nom. Jap.: *Ichimonji-seseri*.

Suborder ***HETEROCEA***

Fam. ***Noctuidae***

1. *Hydroecia fortis* BUTL.
Nom. Jap.: *Gobô-togariyôtô*.

Order ***MECOPTERA***

Fam. ***Bittacidae***

1. *Bittacus nipponicus* NAV.
Nom. Jap.: *Nippon-nagashirriage*.

Order ***NEUROPTERA***

Fam. ***Myrmeleonidae***

1. *Hagenomyia micans* M'L.
Nom. Jap.: *Nami-usubakagerô*.

Order ***TRICHOPTERA***

Fam. ***Stenopsychidae***

1. *Stenopsyche griseipennis* M'L.
Nom. Jap.: *Hige-kawatobikera*.

Order RHYNCHOTA

Fam. **Pentatomidae**

1. *Pentatoma japonicum* DIST.
Nom. Jap.: *Tsuno-aogame*.
2. *Sastragela scutellata* SCOTT
Nom. Jap.: *Monki-tsunogame*.
3. *Trochela luteovaria* DIST.
Nom. Jap.: *Nashi-game*.
4. *Urostylis westwoodi* SCOTT
Nom. Jap.: *Kunugi-game*.
5. *Zicrona coerulea* L.
Nom. Jap.: *Ruri-game*.

Fam. **Coreidae**

1. *Acanthocoris sordidus* THUNB.
Nom. Jap.: *Hôzuki-herigame*.
2. *Cletus trigonus* THUNB.
Nom. Jap.: *Hari-herigame*.
3. *Leptocorisa varicornis* F.
Nom. Jap.: *Kumo-herigame*.
4. *Megalotoma costalis* STÅL.
Nom. Jap.: *Kibane-hoso-herigame*.
5. *Ochrochira fuliginosa* UHL.
Nom. Jap.: *Ô-herigame*.
6. *Riptortus clavatus* THUNB.
Nom. Jap.: *Kibane-hoso-herigame*.

Fam. **Reduviidae**

1. *Cydnocoris russatus* STÅL
Nom. Jap.: *Aka-sashigame*.
2. *Nabis apterus* F.
Nom. Jap.: *Harabiro-sashigame*.
3. *Rhinocoris leucospilus* STÅL
Nom. Jap.: *Monshiro-sashigame*.

4. *Velinoïdes dilatatus* MATS.
Nom. Jap.: *Hanenashi-sashigame.*
5. *Velinus nodipes* UHL.
Nom. Jap.: *Yani-sashigame.*

Fam. ***Capsidae***

1. *Adelphocornis variabilis* UHL.
Nom. Jap.: *Futamon-mekuragame.*

Fam. ***Notonectidae***

1. *Notonecta triguttata* MOTSCH.
Nom. Jap.: *Nami-matsumo.*

Fam. ***Corixidae***

1. *Corixa substriata* UHL.
Nom. Jap.: *Kofusen.*

Fam. ***Membracidae***

1. *Gargara genistae* F.
Nom. Jap.: *Maru-tsunozemi.*
2. *Tricentrus yatsugadakensis* n. sp.
♀. Closely allied to *T. flavipes* UHL., but differs from it as follows:
The horn-like projections somewhat becoming slenderer towards the end and suddenly truncated at the tip; elytron at the base broadly fuscous, the veins yellowish brown, at the apical half fuscous, the costal vein yellowish, at the apical 1/4 fuscous; ovipositor longer than the coloeostron, at the tip being yellowish brown.

Length 6 mm., to the tip of the elytron 7 mm.

Hab.: Binomori at the foot of Yatsugadake; one female specimen was collected by KOICHI TAKAI.

Nom. Jap.: *Yatsugadake-tsunozemi.*

Fam. ***Jassidae***

1. *Macropsis munda* UHL.
Nom. Jap.: *Ao-zukin-yokobaye.*
2. *Phlepsius ishidae* MATS.
Nom. Jap.: *Ringo-madara-yokobaye.*

Fam. ***Fulgoridae***

1. *Ossoides lineatus* BIERM.

Nom. Jap.: *Naga-gumbaiunka*.

Fam. ***Cercopidae***

1. *Aphrophora binomoriensis* n. sp.

♀. Allied to *A. intermedia* UHL., but differs from it as follows:

Body with short grayish hairs; vertex at the anterior border scarcely elevated, at the disc shallowly and less punctate than at the pronotum; the middle keel of the clypeus yellowish, in the middle elevated and enlarged; clypeus with silvery short pubescence as on the cheeks; pronotum at the sides not transversely grooved, the middle keel lower, towards the hind margin becoming obsolete; scutellum transversely, rugosely punctate; elytron at the costa with 2 large subhyaline whity patches, at the base of costa narrowly grayish white, an oblique row of fuscous spots from the claval angle to the middle of the costa, behind which provided with a large triangular, fuscous patch; the last ventral segment somewhat shorter than the penultimate; coloestron and ovipositor brownish, the latter much longer than the former.

Length 13 mm.

Hab.: Binomori at the foot of Yatsugadake; one female specimen was collected by CHIRO YOHENA, and another female by S. HIRAYAMA at Oiwake in the Prov. Shinano.

Nom. Jap.: *Binomori-awafuki*.

2. *Aphrophora flavomaculata* MATS.

Nom. Jap.: *Monki-awafuki*.

3. *Aphrophora harimaensis* MATS.

Nom. Jap.: *Harima-awafuki*.

4. *Aphrophora musashiana* n. sp.

♀. Closely allied to *A. obtusa* MATS., but differs from the latter in the following points:

Body with the elytron broader, paler, beneath darker; vertex dark brown, at the outer side of the apical field paler, at the anterior margin rounded, the middle keel of the apical field whity, near the anterior border being broken, the middle keel of vertex also broken; pronotum brownish flecked, the middle keel at the anterior 1/5 obsolete, towards the hind margin becoming lower, punctures less, hairs from the punctures shorter and indistinct; scutellum with an obsolete middle keel, in the disc fuscous, at the apex yellowish; a large patch

at the claval apex and veins at the apical 1/4 of the elytron brownish; legs brownish, femora at the apices paler, with longitudinal deeper stripes; tibiae and tarsi paler, the latter at the apices and claws dark brown; genital segment paler in colour, coloeostron somewhat shorter than the ovipositor.

Length 10 mm.

Hab.: Mt. Takao at the Prov. Musashi; one female specimen was collected by S. HIRAYAMA in August, 1926.

Nom. Jap.: *Musashi-awafuki*.

5. *Aphrophora takaii* n. sp.

Near *A. obtusa* MATS., but differs as follows:

Unicolorously brownish testaceous; apical field narrowly brownish at the margin; the middle keel on both ends somewhat narrower; rostrum at the apical half fuscous; pronotum somewhat more minutely punctate than at the base of the elytron; scutellum rugosely, transversely wrinkled; elytron at the costa except at the middle broadly subhyaline, veins here and there often yellowish spotted; the last ventral segment of abdomen much longer than the penultimate; genital plates shorter than the last segment, being oblong.

Length 10.5 mm.

Hab.: Binomori at the foot of Yatsugadake; three male specimens were collected by KOICHI TAKAI and CHIRO YOHENA, and another male by S. HIRAYAMA at Inokashira near Tokyo.

Nom. Jap.: *Takai-awafuki*.

6. *Aphrophora yatsugadakensis* n. sp.

Allied to the preceding species, but differs from it as follows:

Body covered with much longer grayish hairs; the middle keel of the apical field of the vertex except the base obsolete, at the anterior border distinctly elevated; vertex and apical field more punctured; pronotum deeply and grossly punctured; scutellum with long grayish hairs; elytron unicolorously brownish gray, costa at the middle with 9 black patches, on each side being somewhat paler in colour, grayish longer pubescent all over the surface; legs brownish yellow, femora with each a brownish stripe, the patches of tarsi obsolete; the last ventral segment of abdomen yellowish, coloeostron brownish, ovipositor yellowish.

Length 9 mm.

Hab.: Binomori at the foot of Yatsugadake; one female specimen was collected by CHIRO YOHENA.

Nom. Jap.: *Yatsugadake-awafuki*.

7. *Aphrophora yohenai* n. sp.

Closely allied to *A. vitis* MATS., but differs from the latter in the following points:

♀. Body smaller; apical field of the vertex rugosely punctured, distinctly excavated; vertex indistinctly, rugosely punctate; rostrum of the ground colour; pronotum concolorous with the ground brownish colour, the middle keel distinct to the hind margin; scutellum bare, in the middle transversely rugose; no paler patch at the costa near the base, but near the apex with a large whitish patch which is connected with the concolorous patch at the N. brachialis; hind legs yellowish, the femur somewhat darker; last segment of the venter of abdomen a little shorter than the penultimate, being paler in colour.

Length 9 mm.

Hab.: Binomori at the foot of Yatsugadake; one female specimen was collected by CHIRO YOHENA.

Nom. Jap.: *Yohena-awafuki*.

8. *Awafukia* (n. g.) *hirayamai* n. sp.

Closely allied to *Awafukia naeiae* (MATS.), but differs from the latter in the following points:

♂. Body much larger; vertex with no brownish patch near the inner side of each eye; apical field somewhat darker in colour, impunctate and deeply, transversely excavated on each side of the middle keel; face in the middle and the clypeus paler; pronotum at the anterior margin with a V-shaped dark marking, at the hind margin about $\frac{1}{3}$ of the length extended, dark brown, scattered with numerous ocellated, oblong punctures, the middle keel higher and broader at the anterior half; scutellum with 7 transverse rows of large punctures; elytron at the claval apex with no distinct whitish marking; femora near the apices with each a brownish marking; genital plates triangularly, laterally expanded at the apices and on the outer sides bow-like excurved.

Length 10 mm.

Hab.: Mt. Takao near Tokyo.

Nom. Jap.: *Hirayama-awafuki*.

Awafukia n. g.

Closely allied to *Peuceptylus* SAHL., but differs from the latter as follows:

1. Pronotum at the apex of the lateral side somewhat emarginated, on the disc oblongly ocellato-punctate.
2. Frons lacks the middle keel.
3. Rostrum longer, reaching to the middle of the abdomen.

4. Upper spur of the hind tibia arises from near the apex.
5. Genital plate much expanded sidely.

Genotype—*Awafukia hirayamai* MATS.

Peuceptyelus naruae MATS. (Ann. Zool. Jap. V. 2, p. 44, 1904) belongs also to this genus.

9. *Peuceptyelus indentatus* UHL.
Nom. Jap.: *Matsu-miyama-awafuki*.

10. *Peuceptyelus inokashiranus* n. sp.

Closely allied to *P. oiwakensis* MATS., but differs from the latter as follows:

♂. Body smaller; hind boundary line of the apical field of vertex obsolete; on each side of the vertex dark brownish, where is only punctured; pronotum more closely and deeply punctured than on the vertex; frons yellowish, on both ends dark brownish, clypeus pitchy black, at the base on both sides with each a yellowish spot, more transversely rugose; genae coarsely punctate; scutellum at the apex brownish, on the sides testaceous gray; elytron deeply and closely punctate; ventral segment of the abdomen at each hind margin not testaceous, the genital plates at the apices sharply pointed and crossed towards each other.

Length 6.5 mm.

Hab.: Inokashira near Tokyo; one male specimen was collected by S. HIRAYAMA on the 19th of August, 1929.

Nom. Jap.: *Inokashira-miyama-awafuki*.

11. *Peuceptyelus oiwakensis* n. sp.

♂. Closely allied to *P. nigroscutellatus* MATS., but differs from it as follows:

Apical field of the vertex dark brown, sparsely punctate, and deeply excavated on each side; frons brownish at the transit to the vertex paler; the transverse keels, the middle keel at the apex and at the clypeus yellowish; antennae brownish; pronotum less punctate than on the vertex, the middle keel on both ends obsolete; elytron at the costal region with no oblong, subhyaline, whity marking; abdomen dark brown, each segment at the hind margin narrowly testaceous, the 6th segment largely testaceous, the last so long as the genital plate which is conically pointed towards the apex.

Length 7.5 mm.

Hab.: Oiwaake at the Prov. Shinano; one male specimen was collected by S. HIRAYAMA on the 12th, July, 1929.

Nom. Jap.: *Oiwaake-miyama-awafuki*.

12. *Peuceptyelus takaosanus* n. sp.

Allied to *P. oiwakensis* MATS., but differs from it as follows:

♀. Apical field of the vertex in a transverse line punctate, the middle keel of the vertex lower and at the anterior border obsolete; face brownish testaceous, so that the apical yellowish spot obsolete, along the middle keel more deeply and numerously punctate; sternum brownish testaceous; middle of the mesosternum with a large pitchy brownish marking. Pronotum more deeply and numerously punctate, the disc transversely rugose; elytron less punctate, especially at the clavus; abdomen pale brownish, the last segment somewhat shorter than the preceding one; ovipositor much longer than the coloeostron.

Length 8 mm.

Hab.: Mt. Takao in the Prov. Musashi; one female specimen was collected by S. HIRAYAMA on 21st, July, 1928.

Nom. Jap.: *Takao-miyama-awafuki*.

13. *Ptyleus takaii* n. sp.

Near *P. lineatus* L.

♀. Head yellowish with whity hairs, scarcely punctate; at the transit to the face with four transverse fuscous lines which are united in the middle into a v-shaped marking; at each side with two fuscous lines reaching to the eyes; apical field excurred, impunctate, at the margin somewhat infuscated. Pronotum pale gray, very shallowly punctured, near the anterior margin with a yellowish bow-like band; scutellum yellowish, in the middle brownish, obscurely, transversely rugose. Elytron very finely punctate, near the base with a longitudinal fuscous line extending to 1/3 of the elytron, behind the middle with a conical fuscous marking, on each side being subhyaline. Body beneath and legs yellowish, sternum in the middle black, claws fuscous.

Length 6 mm. to the tip of elytron.

Hab.: Binomori; one female specimen was collected by KOICHI TAKAI.

Nom. Jap.: *Takai-hoso-awafuki*.

Order ORTHOPTERA

Fam. **Gryllidae**

1. *Nemobius nigrofasciatus* MATS.

Nom. Jap.: *Madara-suzu*.

2. *Oecanthus longicauda* MATS.

Nom. Jap.: *Kantan*.

Fam. ***Stenopelmatidae***

1. *Diestrammena marmorata* D. H.
Nom. Jap.: *Madara-kamadouma*.

Fam. ***Acrididae***

1. *Acrida lata* MÖTSCH.
Nom. Jap.: *Shoryô-batta*.
2. *Chrysochraon japonicus* BOLIV.
Nom. Jap.: *Naki-inago*.
3. *Oedaleus infernalis* SAUSS.
Nom. Jap.: *Kuruma-batta-modoki*.
4. *Pachytylus danicus* L.
Nom. Jap.: *Daimyo-batta*.
5. *Parapleurus alliaceus* GUÉR.
Nom. Jap.: *Inago-modoki*.
6. *Podisma mikado* BOLIV.
Nom. Jap.: *Miyama-fukibatta*.
7. *Sphingonotus japonicus* SAUSS.
Nom. Jap.: *Kawara-batta*.
8. *Trilophida annulata* THUNB.
Nom. Jap.: *Ibo-batta*.

Fam. ***Locustidae***

1. *Ducetia japonicus* THUNB.
Nom. Jap.: *Sesuji-tsuyumusi*.
2. *Gomphocleis burgeri* D. H.
Nom. Jap.: *Kirigirisu*.
3. *Homoeocoryphus lineosus* Wk.
Nom. Jap.: *Kusa-kiri*.

Fam. ***Tettigidae***

1. *Tettix japonicus* D. H.
Nom. Jap.: *Yamato-hishibatta*.

Fam. ***Mantidae***

1. *Paratenodera sinensis* STOLL

Nom. Jap.: *Nami-kamakiri*.

Order DERMAPTERA

Fam. ***Forficulidae***

1. *Forficula mikado* BURR.

Nom. Jap.: *Kibane-hasami*.

Order ODONATA

Fam. ***Libellulidae***

1. *Pantala flavescens* F.

Nom. Jap.: *Usuba-kitonbo*.

2. *Sympetrum darwinianum* SELYS

Nom. Jap.: *Natsu-akane*.

3. *Sympetrum elatum* SELYS

Nom. Jap.: *Miyama-akane*.

4. *Sympetrum eroticum* SELYS

Nom. Jap.: *Mayutate-akane*.

5. *Sympetrum infuscatum* SELYS

Nom. Jap.: *Noshime-tonbo*.

Fam. ***Aeschnidae***

1. *Aeschna mixta* LATR.

Nom. Jap.: *Madara-yanma*.

Fam. ***Agrionidae***

1. *Sympycna fusca* LIND.

Nom. Jap.: *Otsunen-itotonbo*.